Title (en)
DYNAMIC ROUTING SYSTEM TO SELECT CHARGING STATIONS

Title (de)
DYNAMISCHES ROUTING-SYSTEM ZUR AUSWAHL VON LADESTATIONEN

Title (fr)
SYSTÈME DE ROUTAGE DYNAMIQUE POUR SÉLECTIONNER DES STATIONS DE CHARGE

Publication
EP 4361569 A1 20240501 (EN)

Application
EP 23206510 A 20231027

Priority
US 202217976766 A 20221029

Abstract (en)
Embodiments relate to a dynamic routing system, comprising a memory that stores computer executable components, and a processor that executes the computer executable components stored in the memory, wherein the computer executable components comprise a first receiving component that receives information of a trip comprising a destination and departure information, and an optimal routing component that determines an optimal routing based on current conditions, user preferences for charging stations, primary user's driving habits, battery's state of health, financial impact, and availability of charging stations at the time of receiving the trip information. At the time of trip set up, the system can make reservations for charging at the charging station requiring a reservation. During the trip, if the system requires a change to the reservation, the system establishes communication with the charging station and adjusts the reservation.

IPC 8 full level
G01C 21/34 (2006.01)

CPC (source: CN EP US)
B60L 58/13 (2019.02 - US); **B60L 58/16** (2019.02 - US); **G01C 21/3415** (2013.01 - EP); **G01C 21/3446** (2013.01 - CN US); **G01C 21/3469** (2013.01 - CN EP US); **G01C 21/3476** (2013.01 - CN); **G01C 21/3484** (2013.01 - CN EP); **G01C 21/3492** (2013.01 - CN EP US); **G01C 21/362** (2013.01 - US); **G01C 21/3691** (2013.01 - US); **G06Q 10/02** (2013.01 - US); B60L 2240/64 (2013.01 - US); B60L 2240/66 (2013.01 - US); B60L 2250/16 (2013.01 - US); B60L 2250/18 (2013.01 - US); B60L 2260/54 (2013.01 - US)

Citation (search report)
- [Y] US 2020072627 A1 20200305 - JUNG ANDREAS [DE], et al
- [Y] US 2019294173 A1 20190926 - SZUBBOCSEV ZOLTAN [DE]
- [A] US 2015298565 A1 20151022 - IWAMURA KAZUAKI [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4361569 A1 20240501; CN 117948995 A 20240430; US 2024142247 A1 20240502

DOCDB simple family (application)
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